

Title (en)
Electrostatic image developer.

Title (de)
Entwickler für elektrostatische Bilder.

Title (fr)
Révélateur d'images électrostatiques.

Publication
EP 0617336 A3 19950809 (EN)

Application
EP 94104715 A 19940324

Priority
• JP 6636693 A 19930325
• JP 14530293 A 19930617

Abstract (en)
[origin: EP0617336A2] Disclosed is an electrostatic image developer with negative chargeability which can give clear image quality and high image density by virtue of the toner, contained therein, having a small-diameter or a high content of fine toner particle, surface-modified with a fluoropolymer fine particle. The toner primarily consists of a polyester binder resin and a coloring pigment, and the toner has an average particle size of 9 μm or less, or a $\leq 4 \mu\text{m}$ fine toner particle content of at least 0.1 % by weight. The toner is surface-modified with 0.1 to 10 % by weight of a fluoropolymer fine particle having an average particle size smaller than that of the toner, in such a way that the ratio of the surface area of the fluoropolymer fine particle to that of the toner may be 10^{-3} to 10^{-1} . Use of a polytetrafluoroethylene fine particle is preferred among other fluoropolymers, and a combination of the surface modification with the fluoropolymer fine particle and that with an inorganic fine particle is further preferred. <IMAGE>

IPC 1-7
G03G 9/087; **G03G 9/08**

IPC 8 full level
G03G 9/08 (2006.01); **G03G 9/087** (2006.01); **G03G 9/097** (2006.01)

CPC (source: EP US)
G03G 9/0819 (2013.01 - EP US); **G03G 9/0825** (2013.01 - EP US); **G03G 9/0872** (2013.01 - EP US); **G03G 9/097** (2013.01 - EP US)

Citation (search report)
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• [PA] US 5219694 A 19930615 - ANNO MASAHIRO [JP], et al & JP H04177363 A 19920624 - MINOLTA CAMERA KK & JP H04177361 A 19920624 - MINOLTA CAMERA KK & JP H04177362 A 19920624 - MINOLTA CAMERA KK & JP H04177365 A 19920624 - MINOLTA CAMERA KK & JP H04174862 A 19920623 - MINOLTA CAMERA KK & JP H04147155 A 19920520 - MINOLTA CAMERA KK
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EP0716350A3; EP1597632A4; US5827632A; US5800959A; EP1043630A3

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DE FR GB

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EP 0617336 A2 19940928; **EP 0617336 A3 19950809**; **EP 0617336 B1 19990113**; DE 69415845 D1 19990225; DE 69415845 T2 19990708; JP 2827822 B2 19981125; JP H06332231 A 19941202; US 5482808 A 19960109

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